



California Energy Commission Collaborative State Transmission Assessment Workshop

(Docket 03-IEP-01: 2004 Integrated Energy Policy Report Update)

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MidAmerican Energy Holdings Company



Six Primary Business Platforms

➤ **MidAmerican Energy**

Distributes electricity and natural gas to 1.3 million customers in Iowa, Illinois, South Dakota and Nebraska.

➤ **CE Electric UK**

Distributes electricity to more than 3.6 million customers in the Northeast of England and across Britain.

➤ **CalEnergy**

Owns and operates power plants in Illinois, Arizona, California, New York, Texas and the Philippines.

➤ **Kern River Gas Transmission Company**

Owns and operates a 1,679-mile gas pipeline from Southwestern Wyoming to near Bakersfield, California.

➤ **Northern Natural Gas**

Owns and operates 16,600 miles of pipeline from Texas to the upper Midwest.

➤ **HomeServices**

Second-largest residential real estate brokerage company in the United States, based on closed transactions.

MidAmerican Energy Holdings Company



- Executive offices - Omaha, Nebraska
- Corporate headquarters - Des Moines, Iowa
- Privately owned by a four-party investor group - Berkshire Hathaway is the largest shareholder
- Business in U.S., U.K., Philippines, Poland and Australia
- 4.9 million electric & gas customers
- \$5.5 billion annual revenue
- \$17 billion in assets
- Approximately 11,000 employees
- Approximately 10,000 MW of generation capacity
- www.midamerican.com

Renewable Generation



- Advantages of renewable energy (lessons from 2000-01):
 - Fuel diversity
 - Indigenous (fuel security)
 - Price stability
 - Environmental benefits
- S.B. 1078 enacted. Now what?
- Nevada IOUs unable to meet RPS goals
- Transmission access: major barrier for entry
 - Must build where resource is located
 - Frequently in remote areas



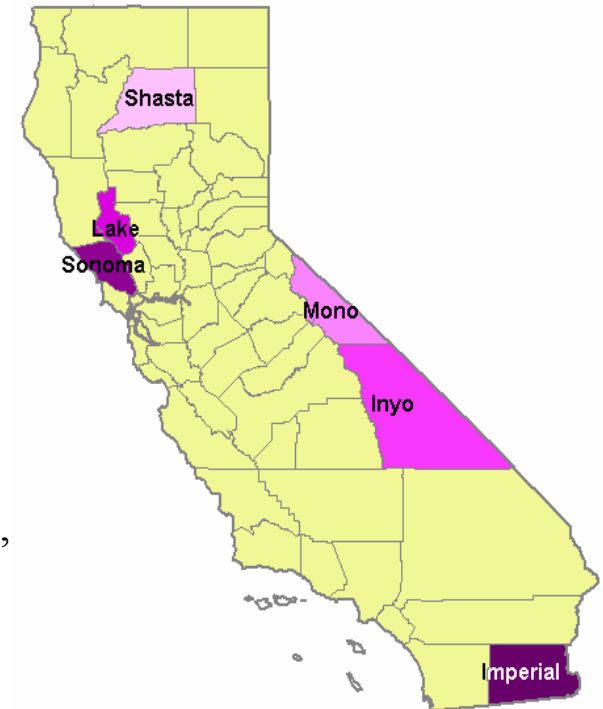
Transmission Issues

- Timetable
- Equitable way to pay
- Constraints already in system
 - Stranded electrons in Mexico
- Which way out?
 - West to San Diego
 - Northwest to greater Los Angeles area
 - Northeast to Nevada
 - East to Arizona
 - Involvement of munis and IOUs

Potential Geothermal Development by CalEnergy



➤ Existing	340 MW
➤ Under Development	185 MW
➤ Proven	600 MW
➤ Additional Possible	<u>1,100 – 1,200 MW</u>
➤ Total Salton Sea KGRA	2,225 – 2,300 MW



Proven – Evaluations of the geothermal field by GeothermEx, a reservoir engineering consulting firm.

Possible – Potential reserves estimated by The Energy and Geoscience Institute (“EGI”) at the University of Utah, as recently published in articles.

Additional existing resources: About 180 MW (See www.geo-energy.org)